Title (en)

DISCOLORATION PREVENTING FOOD PRESERVATIVE AND METHOD

Title (de)

NAHRUNGSKONSERVIERUNGSMITTEL ZUM VORBEUGEN VON VERFÄRBUNG UND VERFAHREN

Title (fr)

COMPOSITION ET PROCEDE DE CONSERVATION EMPECHANT LA DECOLORATION, POUR DENREES ALIMENTAIRES

Publication

EP 0594564 B1 19970709 (EN)

Application

EP 90907999 A 19900416

Priority

- US 9002090 W 19900416
- US 24041488 A 19880901
- US 89697086 A 19860815

Abstract (en)

[origin: US4937085A] A food preservation composition comprising a combination of safe chemicals is effective in low concentrations and imparts no off-color taste to the foods with which it is used, yet effectively prevents the discoloration of vegetables such as potatoes. Citric acid and cysteine, combined in the ratio of about 1 part cysteine to about 25 to 30 parts citric acid, may effectively prevent the blackening of potatoes when applied in solutions of about 0.5 to 0.7 percent by weight in water. A water solution of cysteine and citric acid in which the citric acid does not exceed 1 percent by weight, and the cysteine does not exceed 0.05 percent by weight of the solution, effectively prevents such blackening. Citric acid/cysteine compositions are rendered even more effective in the presence of very low concentrations of ascorbic acid; for example, about 0.1 percent to about 0.3 percent by weight in the water solution. The further addition of essentially trace amounts of ethylenediamine tetraacetic acid; for example, about 0.01 percent to about 0.05 percent by weight in the solution, will permit the reduction of the weight percentage of cysteine in the solution to about 0.01 percent, and will further improve the efficacy of the composition.

IPC 1-7

A23B 7/154; A23B 7/10

IPC 8 full level

A23B 7/153 (2006.01); **A01N 43/824** (2006.01); **A23B 7/00** (2006.01); **A23B 7/10** (2006.01); **A23B 7/154** (2006.01)

CPC (source: EP KR US)

A23B 7/00 (2013.01 - KR); **A23B 7/10** (2013.01 - EP US); **A23B 7/154** (2013.01 - EP US); Y02A 40/90 (2017.12 - EP US)

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI LU NL SE

DOCDB simple family (publication)

US 4937085 A 19900626; AT E155012 T1 19970715; AU 5531790 A 19911111; AU 656881 B2 19950223; BR 9008016 A 19930119; DE 69031046 D1 19970814; DE 69031046 T2 19980205; DK 0594564 T3 19980216; EP 0594564 A1 19940504; EP 0594564 A4 19930428; EP 0594564 B1 19970709; ES 2107424 T3 19971201; KR 0138250 B1 19980425; KR 930700010 A 19930313; NO 305381 B1 19990525; NO 924007 D0 19921015; NO 924007 L 19921105; WO 9115959 A1 19911031

DOCDB simple family (application)

US 24041488 A 19880901; AT 90907999 T 19900416; AU 5531790 A 19900416; BR 9008016 A 19900416; DE 69031046 T 19900416; DK 90907999 T 19900416; EP 90907999 A 19900416; ES 90907999 T 19900416; KR 920702542 A 19921015; NO 924007 A 19921015; US 9002090 W 19900416